

Marine Invasive Species Program Vessel Inspections

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Marine Invasive Species Program

Marine Environmental Protection Division

California State Lands Commission



Impacts of non-native invasive species...

Environmental Impacts

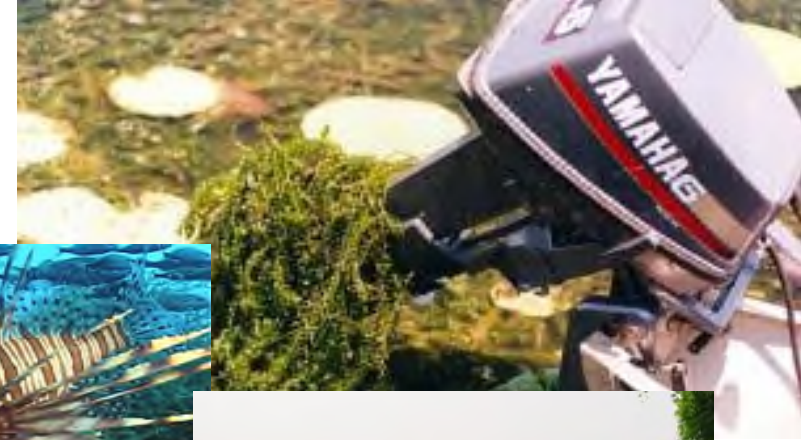
- 2nd leading cause of native species' global biodiversity loss

Economic Impacts

- Global Cost = \$1.4 trillion
- U.S. = \$138 billion (International Congress on Bioinvasions 2009)

Risk to Human Health

- Pathogens
- Bioaccumulation

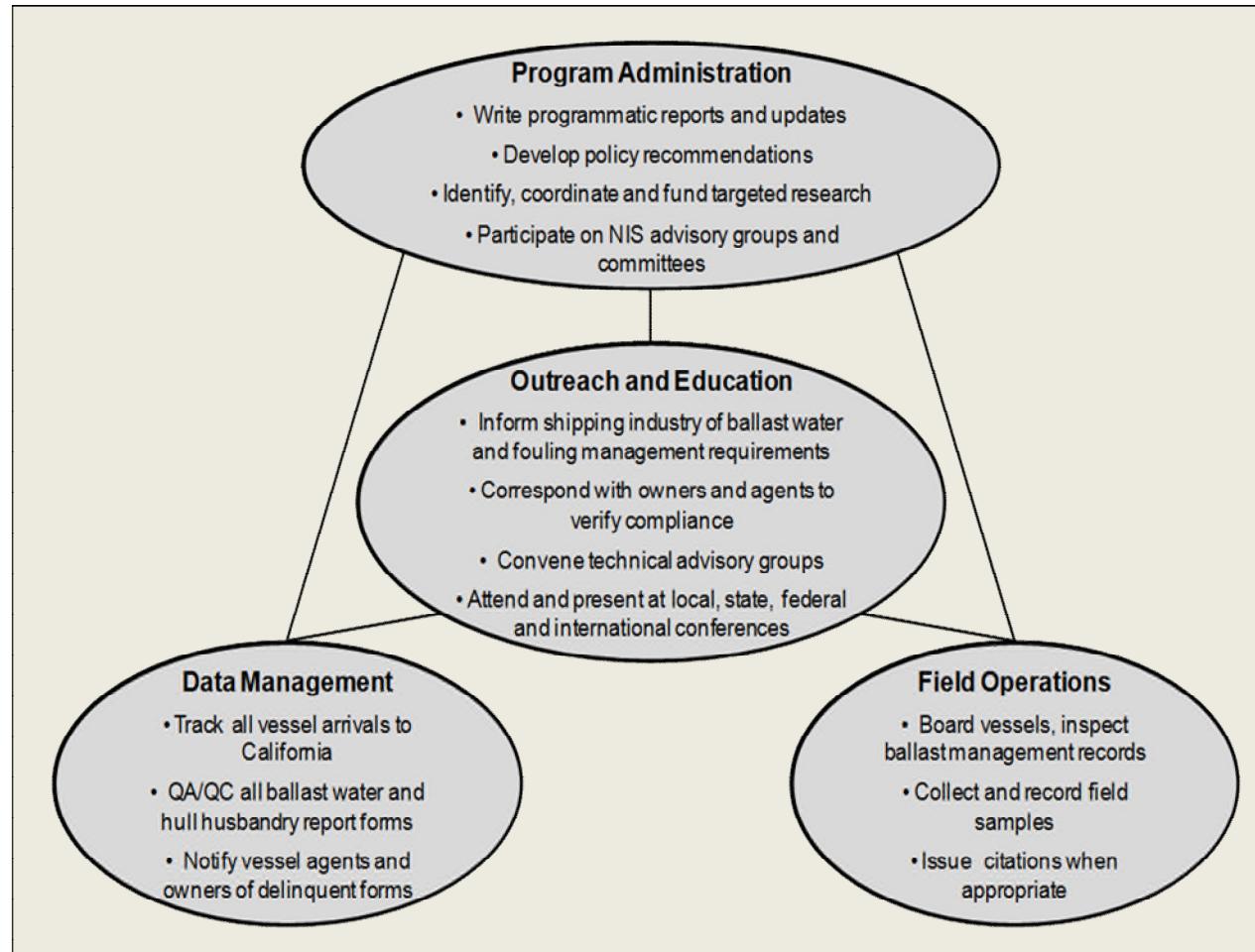




- Roughly **7000** species are moved around the world in ballast on a daily basis (Carlton 1999).
- Each ballast water discharge event has the potential to release over **21.2** million individual organisms (Minton et al. 2005).
- Many vectors for NIS into CA, but shipping most significant.



Marine Invasive Species Program



Onboard Inspections

- The Commission is mandated to inspect at least 25% of all CA arrivals
- Check Ballast Water Logs/Management Plan, verify exchange locations, test ballast salinity, perform outreach





Inspection Checklist

Vessel: _____ IMO# _____ Date: _____

Marine Invasive Species Inspection Checklist

Referenced regulations (Articles) are within the California Code of Regulations under Title 2, Division 3, Chapter 1

Yes = Y, No = N, Not Applicable/Available = N/A

BALLAST WATER RECORDKEEPING & PAPERWORK

- ☐ Are the IMO ballast management guidelines on board? PRC 71205(c)(1)(D)(iii)
- ☐ Does the vessel have a current California Ballast Water Information Packet? If not, provide one. This is NOT a violation.

- **Ballast Water Management Plan**
 - ☐ Is it vessel specific? PRC 71204(h)
 - ☐ Is it detailed enough so master/PIC can follow the ballast management strategy? PRC 71204(h)
 - ☐ Does it include information on crew training on implementing the ballast water management plan (Who, When received)? PRC 71204(i)
 - ☐ Are personnel responsible for carrying out the ballast water management plan knowledgeable about the ship-specific ballast management strategy and the ballast water BMP's? PRC 71204(i)

- **Ballast Water Log** PRC 71205(d)
 - ☐ Is it separate from ballast water reporting forms?
 - ☐ Does it go back 2 years?
 - ☐ Does it outline ballast water management for each tank separately?
 - ☐ Includes each ballast water movement (transfer, uptake, discharge, exchange)?

- **Ballast Water Reporting Forms** PRC 71205
 - ☐ Correct form (USCG form, OMB #1625-0069) PRC 71205(a)(2)
 - ☐ Onboard records go back 2 years PRC 71205 (c)(2)
 - ☐ Submitted prior to arrival for each California port of call PRC 71205 (a)(1)
 - ☐ Completed properly (Esp. Section 5. Provide assistance/instruction if needed)

BALLAST WATER DISCHARGE

- ☐ Is the vessel discharging ballast water at any time during this port call? (If YES, review the accepted Ballast Water Management Options on the next page, as necessary.)

- **If vessel utilized the ballast water exchange management option:**



Inspection Boarding Matrix

- Vessels arriving to CA for the first time
- Vessels with previous violations
- Vessels that have not been inspected in the past 3 months
- Vessels that have not been inspected in the past 12 months
- Vessels that are discharging





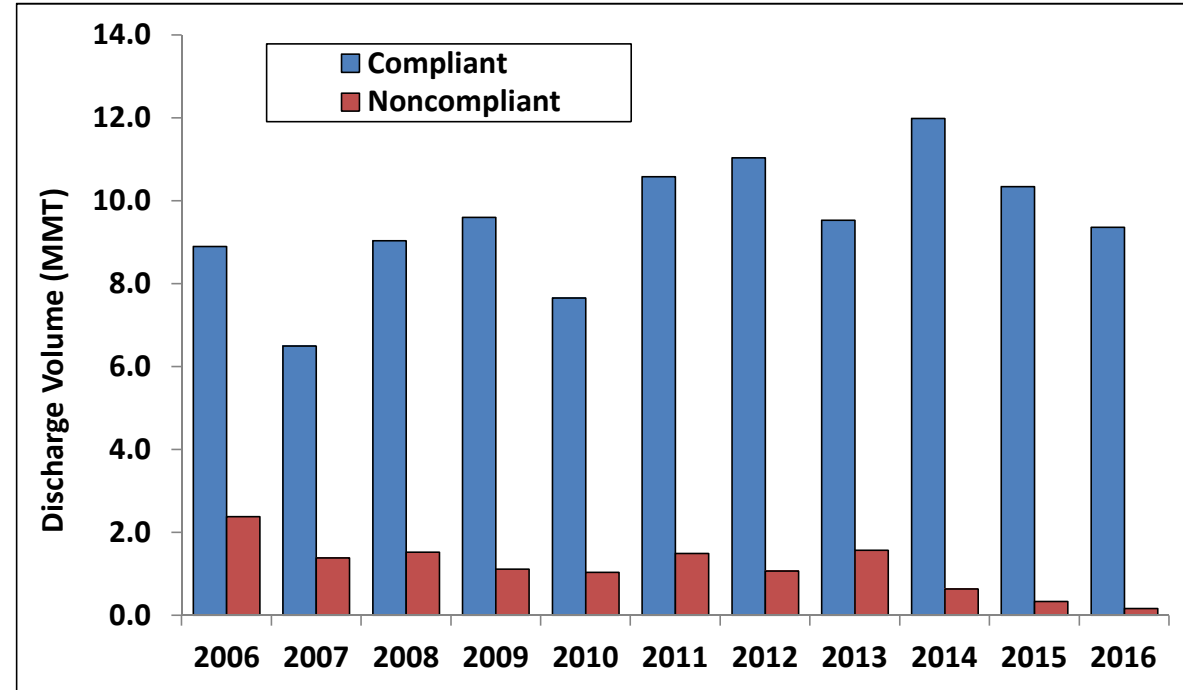
Inspection Statistics

	2014	2015	2016
Total Arrivals	9345	9065	9164
Total Inspected	2442	2373	2313
Percent Inspected	26%	26%	25%
Violations	28	23	15



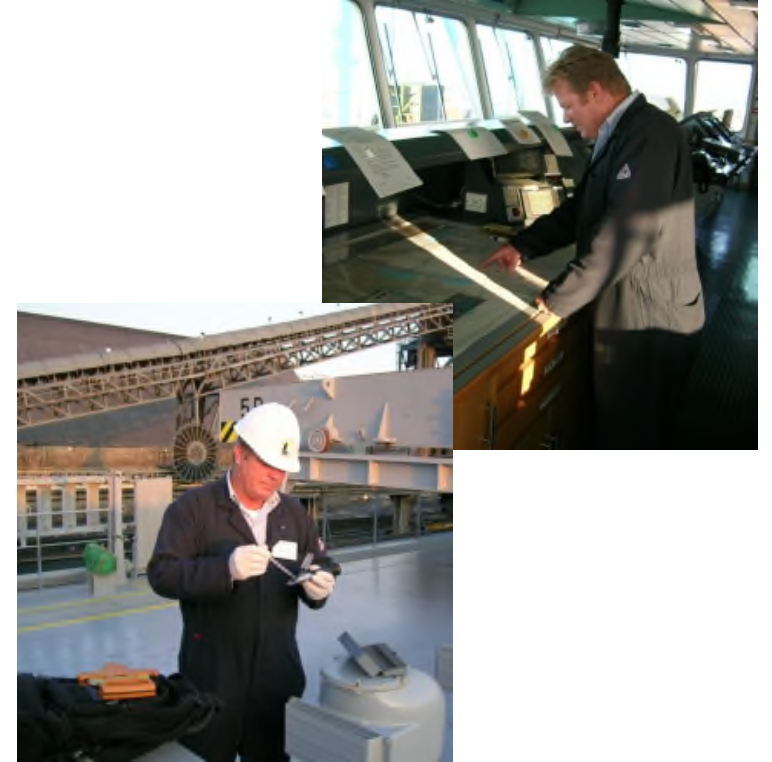
Inspectors are Key to Compliance Success

- **Ballast Water Reporting**
Forms/Ballast Water Management Reports were submitted for 96% of qualifying vessel arrivals between mid 2014-mid 2016.
- **HHRF submission compliance rate** near or above 90% in each of the past seven years (2009-2015), with the highest compliance rate of 94% in 2015.
- **Ballast Water Management**



Improving Inspections

- Passing along California requirements to vessels
- Updating the inspection process
- Updating outreach materials



Questions?

For more information:

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